User's Guide

Creative Video Blaster WebCam Go Mini

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Compliance

This product conforms to the following Council Directive:

- Directive 89/336/EEC, 92/31/EEC (EMC)

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Introduction

Creative WebCam Go Mini is an Internet video camera that allows you to capture images in not just 16-bit colours, but also 24-bit (16.7 million) colours, and record smooth video clips in full-colour. The following are just some of the things you can do with your WebCam:

- **Video Conferencing**. Want to chat face-to-face with someone over the Internet? Used together with Microsoft® NetMeeting®, you can now have real-time video-conferencing with virtually anybody over the Internet!
- **Security Camera**. Worried that someone will use your computer without your knowledge? When used together with WebCam Monitor, WebCam Go Mini can function as a security camera, recording short video clips of what is in its field of view whenever it detects movement. You can also program it to take pictures automatically at regular intervals.
- **Portable Digital Camera**. As WebCam Go Mini is detachable, you can disconnect it from the computer and use it as a digital camera to take pictures anywhere you like! With WebCam Go Mini's focus-free lens, you do not need to manually focus your camera. Just snap your pictures and the images will turn out sharp every time! Downloading images from WebCam Go Mini is a breeze with WebCam Go Control.

About the Applications

Creative WebCam Go Control

Creative WebCam Go Control lets you take pictures or record video clips when the camera is both connected to or disconnected from the computer and store them in albums on your computer. This application allows you to combine multiple snapshots (that were taken when the camera is disconnected) into AVI video clips and also enables video to be recorded with audio. It also allows you to set a timer to take single or multiple snapshots.

Creative WebCam Monitor

If you are thinking of putting a live snapshot of your office, garden, or even your hamster cage on your web page, use Creative WebCam Monitor! Just point your camera at the desired subject, specify some settings, and WebCam Monitor does the rest, including automatically uploading the snapshots to your web site. It can even act as a motion-detecting security system which automatically sends an e-mail message to notify you whenever anybody moves within the camera's field of view.

Creative WebCam PhotoEditor™

Creative WebCam PhotoEditor™ is an image editing and enhancing application that complements your WebCam. Its many nifty features include a suite of special effects tools and a set of designer-looking templates, useful for creating impressive personal greetings and presentations.

PixAround™ PixMaker™ (Creative Edition)

PixAround™ PixMaker™ lets you create your own 360° interactive PixAround scenes, web pages and postcards in 3 easy steps - just snap, stitch and publish! Now, you can create immersive and interactive 360° web pages easily, without the need for expensive professional equipment or additional plug-ins.

PixAround™ PixScreen™ (Creative Edition)

PixAround™ PixScreen™ lets you view PixAround scenes without the need of additional plug-ins. Navigate around a 360° PixAround scene with the help of buttons built into PixScreen's friendly user interface, or print out your PixAround scenes in normal or panoramic view!

Creative LAVA!™

Creative LAVA!™ (Live! Audio-Visual Animation) gives your music visual expression that enhances the emotional depth of your music experience.

Through LAVA!, 3D graphical objects interact with the music and dance intelligently to the sound cues from sources such as CD and MIDI.

Explore the various animation scenarios provided by LAVA! or create your own environments and scenarios for your animation.

Creative MediaRing Talk™

With Creative MediaRing Talk™, you can literally call somebody half a world away without worrying about exorbitant phone charges. MediaRing Talk uses sophisticated patent 'knocking' technology to call either the other party's PC or phone. Unlike other Internet telephony software, with MediaRing Talk, the party you are calling does not need to be connected to the Internet. That means you don't have to waste time pre-scheduling Internet phone conversations. In addition to making Internet phone calls, MediaRing Talk also lets you leave voice messages and engage in text chat.

In addition, if you are a Sound Blaster Live! user, you can use Creative VoicePersonas, a feature incorporated into MediaRing Talk that allows you to disguise or distort your voice. This cool feature leverages upon Sound Blaster Live! powerful audio processing technology to provide you with a range of VoicePersonas such as Chipmunk, Male to Female, or Female to Male.

Microsoft® NetMeeting®

Microsoft NetMeeting is a voice communications client that includes support for international conferencing standards and provides true multi-user application sharing and data conferencing capabilities.

It supports one-way or two-way videoconferencing, so your friends can see you even if they do not have a camera. Audio-only conversations and text chats are also supported. Two or more users can collaborate on a document, doodle on a whiteboard, or even share any Windows® application in real-time over the Internet or corporate intranet.

Microsoft Internet Explorer

Microsoft Internet Explorer is an Internet browser that features ActiveX technology, so web pages can combine interactive ActiveX Controls, Java applets, and more to create interactive content. ActiveMovie technology allows you to view multimedia content on the web, including MPEG audio and video.

Before You Begin

README File

The README file on the CD-ROM contains information not available at the time of printing. Read the file before you continue. In addition, read the following:

- ❑ System Requirements
- ❑ Document Conventions

System Requirements

Minimum system requirements for WebCam Go Mini:

- ❑ 166 MHz Intel Pentium® or higher 100% IBM®-compatible PC
- ❑ 16 MB RAM
- ❑ 70 MB free hard disk space for installation of all software titles (3 MB required for basic software)
- ❑ Available USB port or self-powered USB hub
- ❑ Microsoft Windows 98, Windows Millennium Edition (Me), or Windows 2000
- ❑ Display adapter that supports16-bit colour at a resolution of 640 x 480 pixels
- ❑ CD-ROM drive installed
- ❑ Sound Blaster® or other Windows-compatible sound card and microphone (required for video-conferencing)
- ❑ Modem or LAN access to the Internet at 28.8 Kb or faster (required for video-conferencing)

For optimal performance:

- ❑ 200 MHz Intel Pentium or higher 100% IBM-compatible PC
- ❑ 32 MB RAM
- ❑ Display adapter that supports 16-bit colour at a resolution of 800 x 600 pixels
- ❑ Sound Blaster 16 or higher, or other Windows-compatible sound card with full-duplex support for simultaneous two-way conversations

Document Conventions

The following typographical conventions are used throughout this document:

Table i: Document conventions

This	Represents
bold	Text that must be entered exactly as it appears.
italic	Title of a book or a placeholder, which represents the information you must provide.
UPPERCASE	Directory name, file name, or acronym.
< >	Symbols, letters, and key names on the keyboard.
	This notepad icon indicates information that is of particular importance and should be considered before continuing.
	This alarm clock icon indicates that failure to adhere to directions may result in loss of data or damage to your system.
	The warning sign indicates that failure to adhere to directions may result in bodily harm or life-threatening situations.

1

Installing WebCam Go Mini

This chapter consists of the following sections:

- ❑ In Your Package
- ❑ About WebCam Go Mini
- ❑ Inserting or Changing Batteries
- ❑ Installing WebCam Go Mini

In Your Package

Your package contains the following items:

- ❑ One WebCam Go Mini camera
- ❑ One USB cable
- ❑ One installation CD insert with online manual
- ❑ 2 AAA Batteries

About WebCam Go Mini

Figure 1-1 shows you the front and back views of the camera.

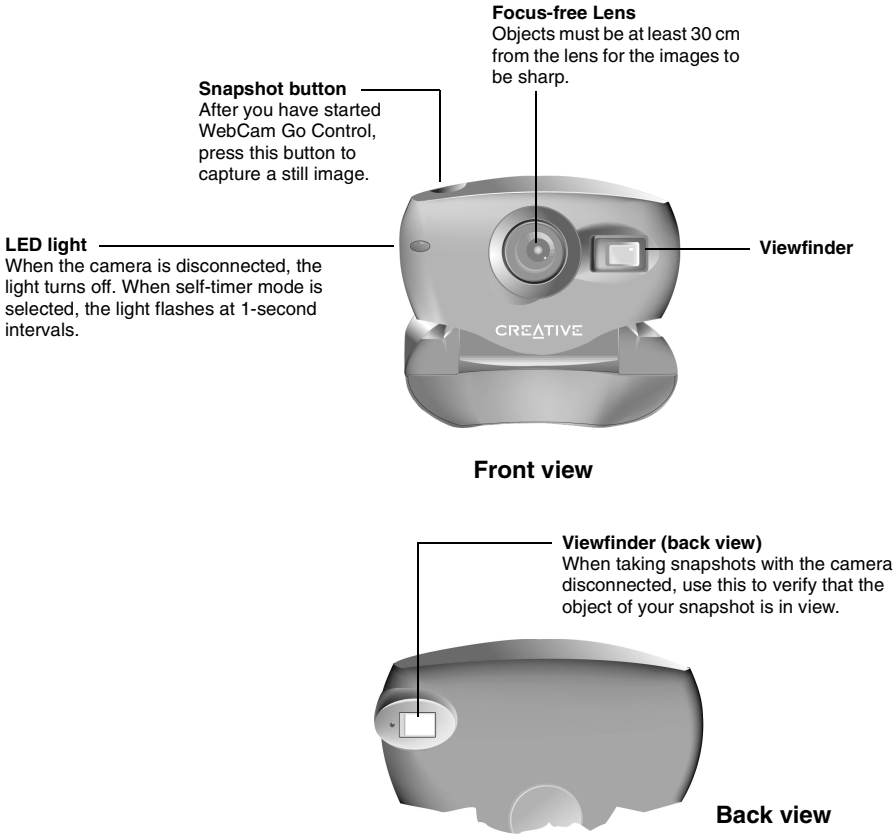
Focus-free Lens
Objects must be at least 30 cm from the lens for the images to be sharp.
Snapshot button
After you have started WebCam Go Control, press this button to capture a still image.
LED light
When the camera is disconnected, the light turns off. When self-timer mode is selected, the light flashes at 1-second intervals.
Viewfinder
CREATIVE
Front view
Viewfinder (back view)
When taking snapshots with the camera disconnected, use this to verify that the object of your snapshot is in view.
Back view

Figure 1-1: Front and back views of WebCam Go Mini.

- To view pictures that you have taken while using the camera on-the-go, you must connect the camera to the computer and download the pictures using WebCam Go Control.
- As JPEG compresses an image according to its details, colours and compression ratio, the file size varies according to the picture taken.
- The counter value decreases by one every time a picture is taken. You can continue taking pictures until the counter reaches “000”.

Figure 1-2 shows the buttons and LCD display on the camera.

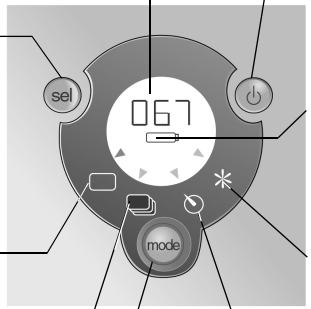

Image counter
Shows the remaining number of pictures that can be taken with the camera undocked.
When the counter reaches “000”, you cannot take any more pictures until you have cleared the camera’s memory by downloading or removing the existing pictures.

Select button
In **Settings Mode**, press the button to change the setting that affects how a picture should be taken.
Note: WebCam Go Mini will switch back to **Camera Mode** if it is left idle for 20 seconds.

Single-Snapshot mode
In this mode, the camera captures the view in one single shot.

Multiple-Snapshot mode
In this mode, the camera takes a series of pictures, with a constant interval between consecutive takes.
If the interval is set to 0 seconds, a movie clip will be created. You can change this interval using WebCam Go Control.

Mode button
Press to switch to one of the following four modes of the camera: single-snapshot mode, multiple-snapshot mode, self-timer mode or clear memory mode.
Press and hold for 2 seconds until the Mode Indicator starts flashing to switch to **Settings Mode**.

On/Off button
To switch on the camera, press this button. You can only switch it on when the camera is disconnected from the system.
To switch off the camera, press and hold for 2 seconds.
Note: The camera will turn itself off if it is left idle for 30 seconds. This length of time can be changed by using WebCam Go Control.

Battery-low indicator
Lights up when the battery is running low. When the battery is low:
i. the idle-timeout is set to 10 seconds;
ii. you can only take 5 more pictures.

Clear memory mode
In this mode, press and hold the **Snapshot** button for 3 seconds to erase the camera memory.
Note: A sequence of beeps will follow. If you release the **Snapshot** button before the end of the sequence, the camera memory will not be erased.

Self-timer mode
In this mode, the camera takes a picture after a specified length of time. The default delay time is 8 seconds.

Figure 1-2: Buttons and LCD display on WebCam Go Mini.

Inserting or Changing Batteries

For WebCam Go Mini to function as a portable digital camera when it is disconnected from the computer, you need to insert two 1.5 V 'AAA' alkaline batteries into its battery compartment.

To insert or replace batteries

1. Press the **On/Off** button to switch off the camera.
2. Flip the camera's head unit upwards.
3. Hold the camera in one hand and press the bottom area of the back cover with your thumb until the catches on the cover are detached from the grooves. See Figure 1-3.
4. Push and lift the cover outwards.
5. Remove the old batteries (if any).
6. Insert the new batteries according to the directions shown in the battery compartment.
7. Align the catches on the cover with the respective grooves in the casing and slide the cover until it snaps back into place (see Figure 1-4).

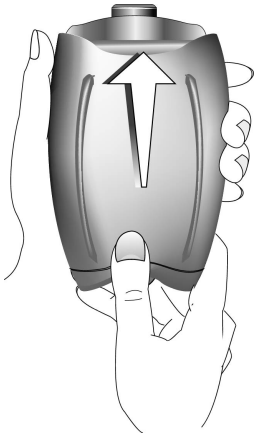

Figure 1-3: Removing the back cover of the camera.

- No batteries are required when the camera is connected to the system.
- If the camera is to be connected to the system for a long period of time, remove the batteries to prevent battery leakage.

- Make sure that you insert the batteries in the correct direction. If not, they may leak and cause damage to the camera.
- Do not mix old batteries with new ones or batteries of different types together.

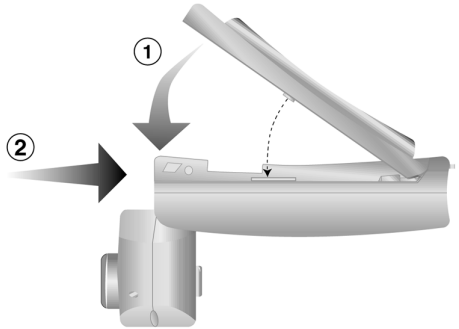

Figure 1-4: Slipping the back cover of the camera back into place.

Installing WebCam Go Mini

Use the installation procedure for your operating system.

For users of Windows 98 and Windows Me, see “In Windows 98 and Windows Me” in the section that follows.
For users of Windows 2000, see “In Windows 2000” on page 1-7.

In Windows 98 and Windows Me

1. Do not connect WebCam Go Mini to your computer before installing the drivers.
   If you accidentally begin installation with WebCam Go Mini connected, the **Add New Hardware Wizard** dialog box appears.
   Click the **Cancel** button and disconnect WebCam Go Mini from your system.
2. Insert the Video Blaster WebCam Go Mini CD into your CD-ROM drive.
3. Click the options for installing drivers and applications if they are not already selected, then click the **OK** button.
4. Follow the instructions on the screen to complete the installation.
   You may be asked, after an application is installed, if you want to restart your computer. Do not restart your computer until all the drivers and applications are installed.

- You can safely install the WebCam Go Mini with your computer turned on.
- The USB port(s) on your computer may be found on the front panel instead of the back panel.
- You can daisy-chain the WebCam Go Mini through another USB device or attach the WebCam Go Mini to a self-powered USB hub.
- If you have a microphone, connect it to your audio card. Most audio cards have an external microphone connector. Read your audio card's documentation for more information.

5. After you have restarted your computer, connect WebCam Go Mini's USB cable to an available USB port on your computer (Figure 1-5). Windows automatically detects the device.

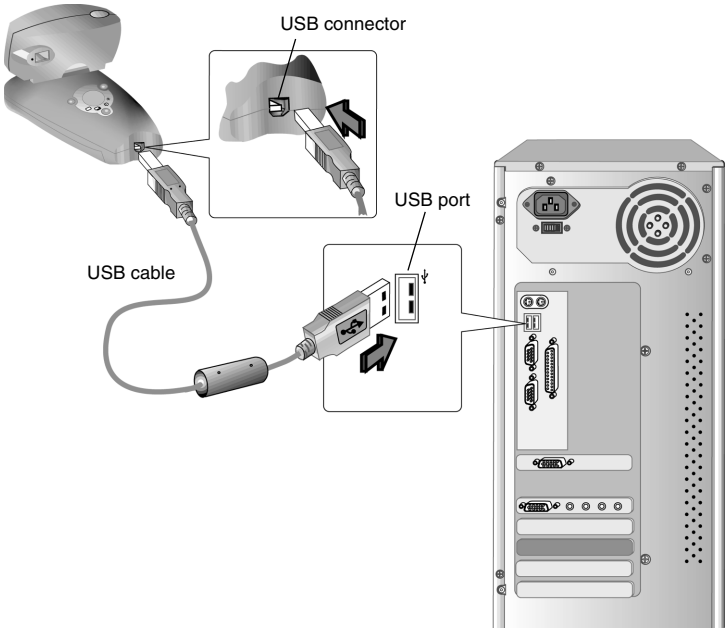

Figure 1-5: Connecting WebCam Go Mini to your computer.

i. If you are prompted to insert the Windows 98 CD, replace the Video Blaster WebCam Go Mini CD with the appropriate CD.
Note: Windows 98 is available in various editions. Be sure to use the correct edition for your system.

ii. In the **Insert Disk** dialog box, click the **OK** button.

iii. Follow the instructions on the screen.

6. Place WebCam Go Mini on top of your computer monitor or another flat surface.

Verifying the installation in Windows 98 and Windows Me

1. Right-click the **My Computer** icon on your desktop.
2. On the menu that appears, click **Properties**.
3. In the **System Properties** dialog box, click the **Device Manager** tab.
4. Click the plus (+) sign next to the **Imaging Device** icon.
   The entry "**Creative WebCam Go Mini**" should appear.
   If the entry does not appear, repeat the installation procedure in "In Windows 98 and Windows Me" on page 1-5.

In Windows 2000

1. Do not connect WebCam Go Mini to your computer before installing the drivers.
   If you accidentally begin installation with WebCam Go Mini connected, the **Found New Hardware Wizard** dialog box appears. Click the **Cancel** button and disconnect WebCam Go Mini from your system.
2. Insert the Video Blaster WebCam Go Mini CD into your CD-ROM drive. The **Digital Signature Not Found** dialog box (Figure 1-6) appears, telling you that an unknown software package has been detected.
   Note: If the **Windows Update: Internet Explorer and Internet Tools** dialog box appears, click the **Cancel** button.
3. Click the **Yes** button. The drivers are copied to your system.

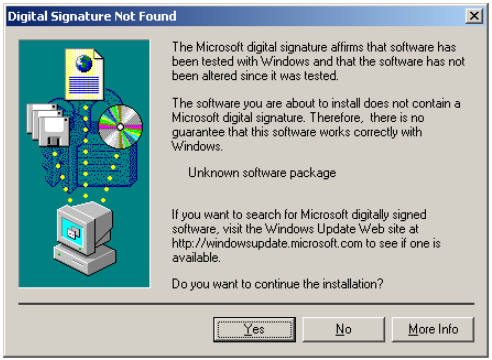
Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Unknown software package
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

Figure 1-6: ***Digital Signature Not Found*** *dialog box.*

4. Connect WebCam Go Mini's USB cable to an available USB port on your computer (see Figure 1-5 on page 1-6). Place WebCam Go Mini on top of your computer monitor or another flat surface.
   The **Digital Signature Not Found** dialog box appears (Figure 1-7) again, telling you that Creative WebCam Go Mini has been detected.
5. Ignore the message and click the **Yes** button. Installation will be complete in a while.

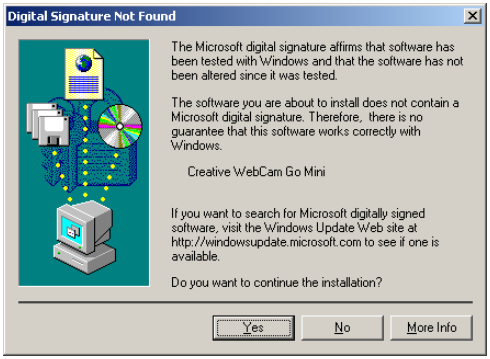
Digital Signature Not Found
The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested.
The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows.
Creative WebCam Go Mini
If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available.
Do you want to continue the installation?
Yes
No
More Info

*Figure 1-7: **Digital Signature Not Found** dialog box.*

Verifying the installation in Windows 2000

1. Right-click the **My Computer** icon on your desktop.
2. On the menu that appears, click **Properties**.
3. In the **System Properties** dialog box, click the **Hardware** tab.
4. Click the **Device Manager** button. A window appears.
5. Click the plus (+) sign next to the **Imaging Device** icon.
   The entry "**Creative WebCam Go Mini**" should appear.
   If the entry does not appear, repeat the installation procedure in "In Windows 2000" on page 1-7.

2 Using WebCam Go Mini as a Web Camera

When you connect WebCam Go Mini to the computer, you can use it as a Web camera. Read the following sections on how you can do that:

- ❑ Starting WebCam Go Control
- ❑ Taking a picture
- ❑ Recording a video clip
- ❑ Viewing an image in its actual size
- ❑ Selecting the video capture device
- ❑ Starting WebCam Go Control Help

Starting WebCam Go Control

WebCam Go Control is an easy-to-use application that enables you to take pictures and record video clips with the WebCam Go Mini camera. You can also view the picture taken and video clips recorded, create and manage albums, and download image files from the camera.

To start WebCam Go Control, do one of the following:

- ❑ Click **Start** -> **Programs** -> **Creative** -> **Video Blaster WebCam** -> **WebCam Go Control**.
- ❑ If you opted to have WebCam Go Control launched at startup during the software installation, there will also be a taskbar icon available. Click this icon.

If WebCam Go Control does not recognize the camera correctly, see Appendix A, "Troubleshooting".

After WebCam Go Control is started, the WebCam Go Control screen similar to Figure 2-1 appears, displaying the view that the camera is capturing currently.

The following sections describe the more commonly used operations. For more details on how to use WebCam Go Control, see the section "Starting WebCam Go Control Help" on page 2-4.

*Figure 2-1: The **WebCam Go Control** screen.*

Taking a picture

1. In the WebCam Go Control window, click the **Live Cam** button.
   The current view of the camera is displayed in the **Preview** window.
2. To capture an image of the preview shown, click the **Snap an image** button.
   You can also press the **Snapshot** button on the camera.
   The image is captured and saved as an image file with an automatically generated file name.
   It is added to the current album, where its name is prefixed with the still image icon .

Recording a video clip

1. In the WebCam Go Control window, click the **Live Cam** button.
   The window displays the current view of the camera.
2. To start recording a video clip, click the **Record a video** button.
   The button starts blinking to indicate that recording is now in progress.
3. To stop the recording, click the button again.
   The button stops blinking.
   The video clip is saved as an AVI file with an automatically generated file name.
   It is added to the album, where its name is prefixed with the video icon .

Viewing an image in its actual size

1. Click the **Album** button.
2. Select the desired album.
3. Double-click the thumbnail of the image that is displayed in the Thumbnail list.
   The image is displayed in the Video window, in its actual size.
   If you are not satisfied with the result, adjust the appropriate settings in order to get the desired result, and then capture the image again.

Selecting the video capture device

The VFW driver is compatible only with software that supports Video For Windows.

To do so

1. In WebCam Go Control, click the **Settings** button.
2. Click the **Camera docked settings** button.
3. Click the scroll button until you get to the **General** tab.
4. Click the **General** tab.
5. In the **Video device** list box, select the desired video capture device.
   The change is applied.
   Note: Only the VFW driver is available.

Starting WebCam Go Control Help

The Help file contains instructions on how to use WebCam Go Control to take pictures and record video clips. It also teaches you how to change the different settings so as to achieve optimum quality for your pictures and video clips.

To start the Help file

1. Click the Creative logo at the top left corner of WebCam Go Control's main window.
2. On the WebCam Go Control menu, click **Help**.

3 Using WebCam Go Mini as a Digital Camera

To use WebCam Go Mini as a portable digital camera, simply disconnect it from the computer. **Note**: Remember to insert two 1.5 V ‘AAA’ alkaline batteries into the camera’s battery compartment.

This chapter provides instructions on the following aspects of using WebCam Go Mini as a digital camera:

- ❑ Taking pictures
- ❑ Downloading pictures from the camera
- ❑ Customizing camera settings

Taking pictures

- You can only switch on the camera when it is disconnected from the system.
- The counter value decreases by one every time a picture taken. You can continue taking pictures until the counter reaches “000”.
- When the counter value reaches “000”, you cannot take any more pictures until you have cleared the camera’s memory by deleting existing pictures.
- The Multiple snapshot mode consumes more battery power.
- The camera turns itself off if it is left idle after a specified amount of time.

1. Unplug the USB cable from the camera.
2. Press the **On/Off** button on the camera.
   The number of images you can take is shown by the Image counter on the LCD display.
   See Figure 1-2 on page 1-3.
3. To change the mode of the camera, press the **Mode** button:
   - ❑ **Single snapshot**
     Select this mode if you want to take single snapshots instantly.
     Press the **Snapshot** button to take a snapshot.
   - ❑ **Multiple snapshot**
     Select this mode if you want to take a series of successive snapshots.
     Press and hold the **Snapshot** button to take snapshots.
     If the interval is set to zero (using WebCam Go Control), a video sequence will be created.
   - ❑ **Self timer**
     Select this mode if you want a snapshot to be taken after a specified length of time.
     You can use this feature to take pictures of yourself.
     Press the **Snapshot** button to take a delayed snapshot. The LED light will blink at 1-second intervals and then turns on when a snapshot is taken. The light turns off at the end of the shot.
     WebCam Go Mini waits for 8 seconds before taking a snapshot by default.
   - ❑ **Clear memory**
     Select this mode if you want to erase the camera memory.
     Press and hold the **Snapshot** button for 3 seconds to erase the camera memory.
     A sequence of beeps will follow.
     If you release the **Snapshot** button before the end of the sequence, the camera memory will not be erased.

- To change the value of setting, press and release the **SEL** button.
- To scroll quickly, press and hold the **SEL** button. Release the button when the desired value appears.

4. To change the picture settings:
   i. Press and hold the **Mode** button for 2 seconds.
   The **Mode** indicator starts flashing and the camera enters the **Settings Mode**.
   ii. Press the **Mode** button to switch to any one of the four modes.

   ❑ **Single snapshot**
   Press the **SEL** button to scroll and select the resolution required (HI, LO).
   The LCD displays one of the following codes which represents the current video setting for the mode:

Codes	Video Setting	Number of available snapshots
H	352 x 288, High quality	17
L	176 x 144, Low quality	67

   ❑ **Multiple snapshot**
   Press the **SEL** button to scroll and select the interval between consecutive takes in increments of 1 second from 0 to 30 seconds.

   ❑ **Self timer single snapshot**
   Press the **SEL** button to scroll and select the specific length of time after which a picture is taken in increments of 1 second from 2 to 30 seconds.

   ❑ **Light Frequency Selection**
   Press the **SEL** button to scroll and select either 50 Hz or 60 Hz fluorescent light frequency.

5. Aim the camera at the desired object, using the camera's viewfinder to verify that the object is in the camera's view.
   Note: The object should be at least 30 cm from the camera.
6. Hold the camera still and press the **Snapshot** button.

7. To take another picture, repeat steps 4 through 6.
8. To switch off the camera, press and hold the **On/Off** button for 2 seconds.

Downloading pictures from the camera

After taking pictures, connect the camera to the computer and then use the application, WebCam Go Control, to download the pictures.

To do so:

1. In the WebCam Go Control window, click the **Cam Memory** button.
   A thumbnail view of the pictures stored in the camera's memory is displayed.
2. If the album is not displayed yet, click the **Album** button to display it.
3. From the Album list, select the album that you want to store the pictures in.
4. Select the desired files and click the **Download selected image(s)** button.

Customizing camera settings

For more information on downloading pictures and customizing the camera, refer to the Help file for WebCam Go Control.

Use WebCam Go Control to adjust the following camera settings for photo-taking:

- ❑ Image size
- ❑ Number of frames in multiple snapshots
- ❑ Time interval between successive frames for multiple snapshots
- ❑ Level of quality
- ❑ Beep mode enabled or disabled
- ❑ Duration of the delay for taking delayed (self timer) snapshots
- ❑ Power-saving enabled or disabled
- ❑ Length of time before the camera is switched off

You can set different settings of image size and quality for each of the 4 camera modes.

A

Technical Specifications

Features and Specifications

- ❑ colour CIF (352 x 288) CMOS image sensor
- ❑ 2 MB of on-board SDRAM for image storage
- ❑ LCD counter display to indicate number of pictures left and mode of stills capture
- ❑ Snapshot button
- ❑ LEDs to indicate powered-on state and camera readiness state
- ❑ High-quality, focus-free, scratch-resistant lens
- ❑ Built-in optical viewfinder
- ❑ Mode selector for four different modes of still capture
- ❑ When detached:
  - Capable of capturing in a maximum of 17 (CIF format) 352 x 288 sized still pictures
  - Images are stored natively in RGB 24-bit colour format
  - Draws power from two AAA batteries
    (**Note:** Battery life in this mode depends on the battery type.
    Two AAA alkaline batteries can last up to more than 500 snapshots.)
  - Auto shut off after a specified length of idle time (software-configurable)

- ❑ When attached:
  - Captures video at up to 30 frames per second at resolutions of 176 x 144 and up to 10 frames per second at 352 x 288
  - Captures still images in RGB 24-bit colour at resolutions up to 352 x 288
- ❑ Attaches to the PC via the Universal Serial Bus (USB) port

Driver and Operating System Compatibility

- ❑ USB model supports Windows 98 SE, Windows 2000, and Windows Me.
- ❑ Video For Windows compatibility.
- ❑ TWAIN support.
- ❑ Standard interface works with virtually all camera applications including Microsoft NetMeeting.

Power

From USB port or self-powered USB hub (powered by an external power source).

Sensor

CMOS CIF image sensor

Resolution (for both Video mode and Still mode)

- ❑ 352 x 288
- ❑ 320 x 240
- ❑ 176 x 144
- ❑ 160 x 120
- ❑ 128 x 96

Resolution (for undocked mode)

- ❑ 352 x 288
- ❑ 176 x 144

Sensitivity

6 lux

Video format

- ❑ 24-bit RGB

Exposure control	Automatic (optional manual control with software)
colour balance	Automatic (optional manual control with software)
colour matrix	Preset and integral to camera
Field-of-view	60 degrees (horizontal)
Depth-of-field	30 cm to infinity
Port compatibility	Universal Serial Bus port

B

Troubleshooting

Problem Installing Software

The setup program for WebCam Go Mini does not run automatically after you insert the installation CD into the drive.

Cause The AutoPlay feature in your Windows system may not be enabled.

Solution To install the software from the CD:

1. Leave the installation CD in the CD-ROM drive.
2. Click **Start** -> **Run**.
3. In the **Run** dialog box, click **D:\CTRUN\CTRUN.EXE**.
4. Follow the instructions on the screen to complete the installation.

Problems Using WebCam Go Mini

There is no USB port available to connect the USB cable.

Solution Do one of the following:

- ❑ Unplug the device currently connected to the USB port.
- ❑ Add a self-powered USB hub.
- ❑ Add a PCI USB card.

An application reports that the video driver is already in use, or that the camera cannot be found.

Solution Do the following:

- ❑ The camera is not properly connected. To resolve this problem, ensure the camera's USB connector is inserted, and that the USB connector is enabled in the BIOS. Refer to your PC's documentation for information on the BIOS.
- ❑ Reinstall the video capture drivers and reboot.

The picture is too bright.

Cause The amount of light entering the camera has exceeded the exposure control limit. There may be a very bright object in the camera's view.

Solution Avoid pointing the camera at very bright objects (for example, sunlight, lights, or highly reflective surfaces).

Insufficient system resources reserved for the USB port, causing the system to be unable to function.

Cause There are too many devices in the system, causing IRQ problems with the system's USB controller.

Solution Do the following:

1. Remove some devices from the system.
2. Restart the system.
   The system will automatically re-allocate the resources.

C

Note on USB Compatibility

In our testing on a wide variety of PC motherboards with integrated Universal Serial Bus (USB) ports, we have encountered a small number of motherboards with USB ports that do not meet the USB specification exactly. Unfortunately, WebCam Go Mini *may not* operate correctly with these systems.

So far, for some of the non-USB-compliant motherboards that we have tested, the motherboard manufacturers have released new versions of motherboards or BIOS to address the problem.

If the camera does not work on your system and you suspect that the problem may be related to your PC's USB port, the following is a list of available options:

1. Contact your PC vendor.
   Your PC vendor may be able to upgrade your motherboard or its BIOS to a newer version that addresses USB incompatibilities.
2. Use a PCI host adapter which provides USB connectors.
   If you are not able to upgrade your motherboard or its BIOS, we recommend this approach.
3. Attach WebCam Go Mini to a self-powered USB hub.
   Some USB devices (such as monitors) also operate as self-powered USB hubs; you can also buy dedicated powered USB hubs which are to be attached to your PC's USB port. However, in some cases, attaching a powered USB hub to a non-USB-compliant USB motherboard connector will not solve the problem.

To look for a USB compatible product, you can visit the product search page at the official USB Web site: **http://www.usb.org/app/search/products**.